



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Aldasan 2000

Revision date: 01.03.2018

Product code: LYS565

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Aldasan 2000

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Wipe disinfection of surfaces, objects and medical devices

Restricted to professional users

### 1.3. Details of the supplier of the safety data sheet

Company name:	Lysoform Dr. Hans Rosemann GmbH	
Street:	Kaiser-Wilhelm-Straße 133	
Place:	D-12247 Berlin	
Telephone:	+49 (0)30 77992-0	Telefax: +49 (0)30 77992-219
Contact person:	Wissenschaftlich-Technische Abteilung Berlin	Telephone: +49 (0)30 / 77992-216
e-mail:	kontakt@lysoform.de	
Internet:	www.lysoform.de	

**1.4. Emergency telephone number:** +49 (0)89 19240 (Giftnotruf München Toxikologische Abteilung)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Germ cell mutagenicity: Muta. 2

Carcinogenicity: Carc. 1B

Hazard Statements:

Harmful if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

1,5-pentanedial, glutaral

Formaldehyde

Isotridecanol, ethoxylated

Sodium alkyl ether sulfate

**Signal word:** Danger

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**Pictograms:****Hazard statements**

H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280	Wear protective gloves, protective clothing and eye protection.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P310	In case of accident: Call a doctor immediately.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Special labelling of certain mixtures**

EUH071	Corrosive to the respiratory tract.
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**2.3. Other hazards**

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
111-30-8	1,5-pentanedial, glutaral			5 - < 10 %
	203-856-5	605-022-00-X	01-2119455549-26	
	Acute Tox. 2, Acute Tox. 3, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H330 H301 H314 H334 H317 H335 H400 H411 EUH071			
50-00-0	Formaldehyde			5 - < 10 %
	200-001-8	605-001-00-5	01-2119488953-20	
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H331 H311 H301 H314 H317			
69011-36-5	Isotridecanol, ethoxylated			5 - < 10 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
68891-38-3	Sodium alkyl ether sulphate			1 - < 5 %
	500-234-8		01-2119488639-16	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			

Full text of H and EUH statements: see section 16.



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#### Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % non-ionic surfactants, < 5 % anionic surfactants, perfumes (Citral, Benzyl salicylate, Amyl cinnamal).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Call a physician immediately. If medical advice is needed, have product container or label at hand.

##### After inhalation

Remove person to fresh air and keep comfortable for breathing.

##### After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

irritation of the mucous membranes, Headache, indisposition

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment of the patient is the same as for a chemical burn.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Foam

#### 5.2. Special hazards arising from the substance or mixture

In case of fire: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Notice the directions for use on the label. Keep container tightly closed. To prepare a dilution, always first fill in the water and then add the product.

**Advice on protection against fire and explosion**

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

**Further information on handling**

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Keep container dry. Avoid: Frost. Keep out of the reach of children. Keep locked up. (TRGS 510 4.2 (12))

**Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs. (TRGS 510)

**Further information on storage conditions**

Protect from sunlight.

**7.3. Specific end use(s)**

none

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
50-00-0	Formaldehyde	2	2.5		TWA (8 h)	WEL
		2	2.5		STEL (15 min)	WEL
111-30-8	Glutaraldehyde	0.05	0.2		TWA (8 h)	WEL
		0.05	0.2		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
111-30-8	1,5-pentanedial, glutaral			
	Worker DNEL, acute	inhalation	local	0.25 mg/m <sup>3</sup>
50-00-0	Formaldehyde			
	Worker DNEL, long-term	dermal	systemic	240 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	0.5 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	1 mg/m <sup>3</sup>
68891-38-3	Sodium alkyl ether sulphate			
	Worker DNEL, long-term	dermal	systemic	2750 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	175 mg/m <sup>3</sup>



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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
111-30-8	1,5-pentanedial, glutaral	
Freshwater		0.0025 mg/l
Marine water		0.00025 mg/l
Freshwater sediment		5.27 mg/kg
Marine sediment		0.009 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.8 mg/l
Soil		0.18 mg/kg
50-00-0	Formaldehyde	
Freshwater		0.47 mg/l
Marine water		0.47 mg/l
Freshwater sediment		2.44 mg/l
Marine sediment		2.44 mg/l
Micro-organisms in sewage treatment plants (STP)		0.19 mg/l
Soil		0.03 mg/kg
68891-38-3	Sodium alkyl ether sulphate	
Freshwater		0.24 mg/l
Marine water		0.024 mg/l
Freshwater sediment		5.45 mg/kg
Marine sediment		0.545 mg/kg
Micro-organisms in sewage treatment plants (STP)		10000 mg/l
Soil		0.946 mg/kg

#### 8.2. Exposure controls



##### Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

##### Eye/face protection

When handling the concentrated product (for example, transferring) use tight fitting eye protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommendation: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.



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#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. ABEK

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	blue
Odour:	characteristic

pH-Value:	ca. 7
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#### Changes in the physical state

Melting point:	not determined
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Initial boiling point and boiling range:	not determined
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Flash point:	>70 °C DIN 51755
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#### Flammability

Solid:	not applicable
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Gas:	not applicable
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Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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#### Auto-ignition temperature

Solid:	not applicable
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Gas:	not applicable
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Decomposition temperature:	not determined
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#### Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
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Density (at 20 °C):	1.1 g/cm <sup>3</sup>
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Water solubility:	easily soluble
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#### Solubility in other solvents

not determined

Partition coefficient:	not applicable
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Vapour density:	not determined
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Evaporation rate:	not determined
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### 9.2. Other information

Solid content:	not determined
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

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No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Safe handling: see section 7

**10.5. Incompatible materials**

Oxidising agent, strong, Base, acid.

**10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed, in contact with skin or if inhaled.

**ATEmix tested**

	Dose	Species	Source
LD50, oral	1.5 mg/kg	Rat	

**ATEmix calculated**

ATE (inhalative aerosol) 2.345 mg/l

CAS No	Chemical name	Exposure route	Dose	Species	Source	Method
111-30-8	1,5-pentanedial, glutaral	oral	LD50 77 mg/kg	Rat		OECD 401
		dermal	LD50 >2000 mg/kg	Rat		OECD 402
		inhalative vapour	LC50 mg/l			not determined
		inhalative (4 h) aerosol	LC50 0.28-0.39 mg/l	Rat		OECD 403
50-00-0	Formaldehyde	oral	LD50 100 mg/kg	Rat		
		dermal	LD50 270 mg/kg	Rabbit		
		inhalative vapour	LC50 mg/l			not determined
		inhalative aerosol	ATE 0.5 mg/l			
69011-36-5	Isotridecanol, ethoxylated	oral	ATE 500 mg/kg			
68891-38-3	Sodium alkyl ether sulphate	oral	LD50 >5000 mg/kg	Rat		
		dermal	LD50 >5000 mg/kg	Rat		

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Subacute dermal toxicity: 1% solution Rabbit, 3.6 ml/kg, not toxic

Glutaral (in aqueous solution)

In case of skin contact Rabbit corrosive (OECD 404)

In case of eye contact Rabbit irreversible damage (Draize- Test)



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#### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (1,5-pentanedial, glutaral)

May cause an allergic skin reaction. (1,5-pentanedial, glutaral; Formaldehyde)

Glutaral (in aqueous solution)

Positive data from patch testing. (OET) Guinea pig

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Formaldehyde)

May cause cancer. (Formaldehyde)

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.





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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
111-30-8	1,5-pentanedial, glutaral					
	Acute fish toxicity	LC50 0.8 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 0.6 mg/l	72 h	Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 2.1 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC 1.6 mg/l	97 d	Oncorhynchus mykiss (Rainbow trout)		
	Crustacea toxicity	NOEC 5 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
50-00-0	Formaldehyde					
	Acute fish toxicity	LC50 6.7 mg/l	96 h	Lepomis macrochirus (Bluegill)		
	Acute crustacea toxicity	EC50 42 mg/l	48 h	Daphnia magna (Big water flea)		
69011-36-5	Isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 1 - 10 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 1 - 10 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 1 - 10 mg/l	48 h			
	Acute bacteria toxicity	(140 mg/l)		Activated sludge		
68891-38-3	Sodium alkyl ether sulphate					
	Acute fish toxicity	LC50 10 - 100 mg/l	96 h	Leuciscus idus (golden orfe)		
	Fish toxicity	NOEC 10 mg/l	>1 - <=	Leuciscus idus (golden orfe)		
	Crustacea toxicity	NOEC >0.1 - 1 mg/l		Daphnia magna (Big water flea)		

#### 12.2. Persistence and degradability

The product has not been tested.

Formaldehyde:

Readily biodegradable (according to OECD criteria).

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
111-30-8	1,5-pentanedial, glutaral				
		OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	90 - 100 %	28	
		Readily biodegradable (according to OECD criteria).			
50-00-0	Formaldehyde				
		Readily biodegradable (according to OECD criteria).			
69011-36-5	Isotridecanol, ethoxylated				
		OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>60%	28	
		Readily biodegradable (according to OECD criteria).			
68891-38-3	Sodium alkyl ether sulphate				
		Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
111-30-8	1,5-pentanedial, glutaral	-0.36

**12.4. Mobility in soil**

If product enters soil, it will be mobile and may contaminate groundwater.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN 1903

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**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral; glutaraldehyde; 1,5-pentanedial, Formaldehyde 5 - 10 %)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Classification code: C9

Special Provisions: 274

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 80

Tunnel restriction code: E

**Marine transport (IMDG)**

**14.1. UN number:** UN 1903

**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral; glutaraldehyde; 1,5-pentanedial, Formaldehyde 5 - 10 %)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: 223, 274

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1903

**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral; glutaraldehyde; 1,5-pentanedial, Formaldehyde 5 - 10 %)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: A3 A803

Limited quantity Passenger: 1 L

Passenger LQ: Y841

Excepted quantity: E1

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no



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#### 14.6. Special precautions for user

No information available.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

##### Additional information

To follow: Regulation (EC) No. 648/2004 (Detergents regulation), 850/2004/EC, 1107/2009/EC, 649/2012/EC. 1907/2006 REACH / 1272/2008 CLP GHS

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 3 - highly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled .
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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**Further Information**

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*